

TL-SF2109P/SF2117P/SL2226P 8+1/16+1/24+2G Ethernet Smart Switch



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SAFETY NOTICES

Caution:

Do not use this product near water, for example, in a wet basement or near a swimming pool.

Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

Package Contents	1
Chapter 1: Introduction of the Product	2
1.1 Virtual Local Area Network (VLAN)	2
1.2 Port TRUNK	2
1.3 AUTO MDI/MDIX	2
1.4 Features	2
Chapter 2: Installation	4
2.1 Mounting the Switch on a Desk	4
2.2 Mounting the Switch in a Rack	4
2.3 Power on	5
Chapter 3: Identifying External Components	6
3.1 Front Panel	6
3.2 Rear Panel	6
3.3 LED indicators	7
3.4 Optional Slot Module	7
Chapter 4: Installation and Usage of the Configuration Software	8
4.1 Installation of the SSC	8
4.2 Usage of the SSC	11
4.3 Port Status Setting	. 13
4.4 TRUNK	. 16
4.5 VLAN	. 17
4.6 Priority	. 20
4.7 MAC Address Age Time	. 21
4.8 Config effect	. 22
4.9 "Save", "Open" Configuration file	. 23
Appendix A: TL-SF2109P Technical Specification	. 25
General	. 25
Environmental and Physical	. 25
Appendix B: TL-SF2117P Technical Specification	. 26
General	. 26
Environmental and Physical	. 26
Appendix C: TL-SL2226P Technical Specification	. 27
General	. 27
Environmental and Physical	. 28
Appendix D: Contact Information	. 29

Package Contents

The following contents should be found in your box:

- > One TL-SF2109P/TL-SF2117P/TL-SL2226P Smart Switch
- > One power cord
- One serial cord
- > This User's Guide
- > One Resource CD
- > Rubber footpads for Desk-mount
- > Rack-mount kit for installing the switch in a 19-inch rack

Note: If any of the above contents is damaged or missing, please contact the retailer from whom you purchased the TL-SF2109P/TL-SF2117P/TL-SL2226P Ethernet Smart Switch for assistance.

Chapter 1: Introduction of the Product

This chapter simply describes the features of the model of the TL-SF2109/TL-SF2117P /TL-SL2226P smart Switch and back-knowledge of Fast Ethernet Switch.

1.1 Virtual Local Area Network (VLAN)

Virtual Local Area Network breaks down the constraint of environment, you can move the workstation freely in the group without change the connection. The technology improves the performance or subnet of the system, equalizes data flow in the net, utilizes the resource reasonably, the work of management and maintenance.

Virtual group: The communication will be improved among the group. And there needs no routers in the group when transferring data to other groups.

Safety: Only the legal users can forward data in the VLAN. So the safety of the net improves.

Low cost: You can move the workstations freely in the VLAN, and there need no routers and replacing the cable.

1.2 Port TRUNK

Generally, TRUNK means that two switches can be connected two or more than two (but less than five) ports side-by-side to supply more band width and more throughput and self-resume technic. This is to say, TRUNK is to treat several physical connections as one logic connection. TRUNK is very useful to several lower speed device to a high speed device.

The current device can simply add more NIC connecting to the server to resolve the traffic between the switches and the servers.

1.3 AUTO MDI/MDIX

The switch supports MDI/MDIX function, every port of the Switch can be used as normal port and uplink port. It becomes easy to use, plug and play, when connecting to the other switches and hubs, whether the direct cable and the crossover cable or not.

The switch, a smart auto-negotiated Ethernet switch, supplies the method of promotion of the workstation resource.

1.4 Features

- Complies with IEEE802.3, IEEE802.3u, IEEE802.3ab and IEEE802.3z (only for TL-SL2226P) standards
- > 8/16/24 10/100Mbps Auto-Negotiation RJ45 ports supporting Auto MDI/MDIX

- 1/1/2 extension slots supporting 100M fiber module card (TL-SM201 series) and TL-SL2226P supports 1000M fiber/UTP module (TL-SM301 series)
- Supports IEEE802.3x flow control for Full Duplex mode and backpressure for half-duplex mode
- > Supports Port Enable/Disable
- Supports 9 Port VLAN and 9 IEEE802.1Q Tag VLAN (for TL-SF2109P), 17 Port VLAN (for TL-SF2117P) and 26 Port VLAN (for TL-SL2226P)
- > Supports Port Mirror (only for TL-SF2117P)
- Supports Port Trunk, up to 1 Trunk group (for TL-SF2109P) and 8 Trunk group (for TL-SL2226P)
- Supports Static Priority, TOS and 802.1p Class of Service with 2-level priority queues (for TL-SF2109P and TL-SF2117P)
- > Easy read LED indicators for installation and operation
- > Support a RS232 interface for smart configuration (example :VLAN, Trunk, Priority)
- Desktop Steel case (for TL-SF2109P) and standard 19-inch rack-mountable steel case (for TL-SF2117P and TL-SL2226P), internal power supply

Chapter 2: Installation

2.1 Mounting the Switch on a Desk

Before place the Switch on a desk, attach four rubber footpads to the flutes on the Switch bottom, then lay the Switch on the desktop, where can be have as much as 5kg placed on top.

Note: Make sure there is a grounded AC outlet within 1.5 meters, and working well. Make sure there is free space for radiating heat and air. Make sure not to place anything to heavy on top of the switch.

2.2 Mounting the Switch in a Rack

The dimension of the Switch is designed according to the standard 19" rack-mountable steel case of Electronic Industries Association.

Turn off all the equipment connected to the Switch before mounting it in the rack, then rivet the two "L" brackets onto each side of the Switch, fasten it with screwes in the rack.



Figure 2-1 Rivet the "L" brackets onto the Switch



Figure 2-2 Fasten the Switch in the rack

2.3 Power on

The Switch is powered by AC power supply. Powering on the Switch, it will automatically initialize and its LED indicators should respond as follows:

- 1) All of the LED indicators will flash momentarily for one second, which represent a resetting of the system.
- 2) The power LED indicator will remain ON.

Chapter 3: Identifying External Components

This Chapter describes the front panel, rear panel and LED indicators of the Switch. Cautions:

All the pictures are based on the TL-SF2109P in the manual. The others are similar with the TL-SF2109P.

3.1 Front Panel

The front panel of the TL- SF2109P consists of switch LED indicators, 8 10/100Mbps RJ-45 ports, and 1 serial port Connect the female of the power cord head here.



Figure 3-1 TL- SF2109P Switch Front Panel sketch

> Serial port: Config the system by the serial cable (more details in chapter 4)

3.2 Rear Panel

The rear panel of the TL-SF2109P only features a power receptacle, which is an AC power receptacle , and 1 extension slots. Connect the female of the power cord head here, and the male head to the AC power outlet.

Extension slot: This is a optional module slot which can connect to a 100M UTP/fiber (TI-Sf2109P and TL-SF2117P) or a 1000M fiber module or 10/100/1000M UTP module card(TL-SI2226P).



Figure 3-2 TL- SF2109P Switch Rear Panel sketch

Power connector: This is a 3-Phase power socket, Plug the connector with a 100~240VAC/50-60Hz power supply.

3.3 LED indicators

The LED indicators include Power, 100Mbps, Link/ACT and slot can display the working status of the switch, more details as follows:

○ ○ ○ ○ ○ ○ ● Link ○ Power
A at
$1 2 3 4 5 6 7 8 \stackrel{\text{OC}}{\longrightarrow} \text{Act}$



- > **Power LED**: After power on, the LED will be light always. If it is turned off, check the connection of the power source.
- > 100Mbps LED: When a port is connected to a device with the 100Mbps, the corresponding green LED is light, or else it is turned off.
- Link/ACT: when transferring the data between two devices, the corresponding LEDs will be flicker with green.
- Slot: When inserted a UTP/fiber module card, LED is green. If it is turned off, check the connection of the card. (The LED is only in TL-SF2109P)

3.4 Optional Slot Module

TL-SL2226P supports the TL-SM201/TL-SM301 serials module cards. TL-SF2109P and TL-SF2117P supply the TL-SM201 serial module cards. Every type of modules contains two category, fiber and UTP.

1) Fiber Modules

The switch supports many optional fiber module card, include the SMF and MMF their interface is SC. Every module's transporting distance is not the same, more details in fiber module User's Guide.

2) UTP Modules

TL-SF2109P and TL-Sf2117P's module work only in 100M full-duplex, TL-SL2226P can support 100/1000M module.

Caution:Before inserting the module, please turn off the power, take off the baffle, and then insert the module along the rails, fasten the serves finally.

Chapter 4: Installation and Usage of the Configuration

Software

The switch is a smart switch, which can be configed the parameters by the supplied software. So it is not a dump switch. The chapter tells you how to use the management software.

4.1 Installation of the SSC

All the views in the manual are base on TL-SF2109P, the other switches' interface will be not the same, only the function is supported, the corresponding icons will be light.

The configuration program runs in the window OS (95/98/2000/NT). The software configs the switch by the serial port of the PC. So before your installation the software, you should have check that the computer has the serial port and the valid windows OS.

- 1. Connect the serial cable from the computer to the switch.
- 2. Turn on the serial port and the valid windows OS.
- 3. Run the setup.exe in the CD, and click "Next" to continue it.
- 4. The default installation path is "X: Program Files\TP-LINK\Smart Switch Configuration". (X: is the system disk). If you want to change the directory, click the **Browse** button.





5. Input your new path, such as "D:\ Switch\TP-LINK\SSC", and then press Enter.

Choose Folder 🛛 🗙
Please choose the installation folder.
Path:
D:\Program Files\TP-LINE_SSC
Directories:
SSREADER36
🕀 🧰 supersoft
🕀 🔂 Symantec
- 🔂 Giga Smart Switch Confi
- Smart Switch Configurati
确定 即消
- 401.AC - 40.113

6. Click the "Next" button.

InstallShield Wizard		×
Choose Destination Location Select folder where Setup will install files.		
Setup will install Smart Switch Configuration in	the following folder.	
To install to this folder, click Next. To install to another folder.	a different folder, cli	ck Browse and select
Destination Folder		
D:\Program Files\TP-LINK\SSC	ţ	Browse
InstallShield		
	< <u>B</u> ack	Next> Cancel

7. Click the "Next" button.

InstallShield Wizard		×
Select Program Folder Please select a program folder.		
Setup will add program icons to the Program P name, or select one from the existing folders li	older listed below. You may type a ne st. Click Next to continue.	ew folder
Program Folders:		
TP-LINK\Smart Switch Configuration		
E <u>x</u> isting Folders:		
Advanced Archive Password Recovery 汉化 Advantech LabTool Ansoft Borland C++Builder 6 Cadence License Manager Cadence PSD 15.0 CAM350 Ver 8 0 6	;版	 _
EONE! Ethereal	\mathbf{k}	-
InstallShield	•	
	< <u>B</u> ack <u>N</u> ext >	Cancel

8. Click the "Finish" to finish the installation.



4.2 Usage of the SSC

The interface of the configuration software is friendly and easy to use, there are four steps as follows:

- 1. Connection
- 2. Open the configuration file or config directly
- 3. Write out the current configuration
- 4. Escape

More details is following:

- After installation, click Start Program TP-LINK Smart Switch Configuration

 Smart Switch Configuration, the desktop display the initialized interface.
- 2. Assure the power is on. Click the "connect" or the icon of "Link to Switch".

Smart Switch Configuration 3.6	
Ele View Help	
File Yew Help Link CitH-L CitH-Select Cold CitH-Select Cold CitH-Select Cold See CitH-N CitH-Select Cold CitH-Select Cold CitH-Select Cold CitH-Select Cold See CitH-Select Cold Cit	
Link to switch and read out current configuration.	

Smart Switch Configuration 3.6	
Link to Switch	
Link to switch and read out current configuration.	

3. If the connection is failure, check the power or the serial cable. The program display the follow message.



4. After connection, the software will read the current configuration of the switch, and display the switch name (TL-SF2109P) automatically, and the connect status is "connected"

📹 Smart Swite	h Configuration 3.6	- [SF2109P7]				_ D ×
🕎 Eile View	Settings Activate Co	nfiguration <u>H</u> elp				_ 8 ×
	🖻 🖬 🐺			?		A
Switch Mod Port Status:	el: TL-SF2109P	Link Status: Connected				
Port No.	Speed/Duplex	Priority	Broadcast Storm Filtering	Flow Control	TRUNK	Modul
Port 1	100M/Full	Low	Disable	Enable	No Trunk	No
Port 2	100M/Full	Low	Disable	Enable	No Trunk	No
Port 3	100M/Full	Low	Disable	Enable	No Trunk	No
Port 4	100M/Full	Low	Disable	Enable	No Trunk	No
Port 5	100M/Full	Low	Disable	Enable	No Trunk	No
Port 6	100M/Full	Low ^{kč}	Disable	Enable	No Trunk	No
Port 7	100M/Full	Low	Disable	Enable	No Trunk	No
Port 8	100M/Full	Low	Disable	Enable	No Trunk	No
Port 9	100M/Full	Low	Disable	Enable	No Trunk	No
VLAN Settin VLAN 1	igs: Port Vlan 1,2,3,4,5,6,	7,8,9				
VLAN 2						
VLAN 3						
VLAN 4						
VLAN 5						
VLAN 6						
VLAN 7						
VLAN 8						_
Caution:This prog	ram expects to link to a	a switch through RS-232 interface.			N	UM///

Cautions:At the time, the "off line" icon will be light, or else it is gray. There are six icons on the right of it. Port setting, TRUNK, VLAN, Priority, Static MAC Address and MAC Address Age inturns.

5. Config the switch

After having connected to the switch, you can config the switch parameters based on your demand, and then write to the switch. Once successful configuration, the switch will reset automatically and work at the mode you wanted.

4.3 Port Status Setting

1. Click "Setting – Port Status Setting" or the corresponding icon, "Port Setting".

Smart Swite	ch Configuration 3.6	- [SF2109P7]				
Eile View	Settings Activate Co	nfiguration <u>H</u> elp				_ 🗗 🗡
	Port <u>S</u> tatus Port <u>O</u> n/Off		N 🖭 🖾 🖬 🖌	8		
Switch Mot Port Status.	<u>T</u> runk YLAN <u>P</u> riority MAC Address <u>Ag</u> ing	Link Status: Connected				•
Port No.	Speed/Duplex	Priority	Broadcast Storm Filtering	Flow Control	TRUNK	Modul
Port 1	100M/Full	Low	Disable	Enable	No Trunk	No
Port 2	100M/Full	Low	Disable	Enable	No Trunk	No
Port 3	100M/Full	Low	Disable	Enable	No Trunk	No
Port 4	100M/Full	Low	Disable	Enable	No Trunk	No
Port 5	100M/Full	Low	Disable	Enable	No Trunk	No
Port 6	100M/Full	Low	Disable	Enable	No Trunk	No
Port 7	100M/Full	Low	Disable	Enable	No Trunk	No
Port 8	100M/Full	Low	Disable	Enable	No Trunk	No
Port 9	100M/Full	Low	Disable	Enable	No Trunk	No
VLAN Settin	ngs: Port Vlan					
VLAN 1	1,2,3,4,5,6,	7,8,9				
VLAN 2						
VLAN 3						
VLAN 4						
VLAN 5						
VLAN 8	1	1				
Set port status.					n I	

Smart Swite	ch Configuration 3.6 Settings Activate Co	- [SF2109P7] nfiguration Help				
				?		
Switch Mod	iel: TL-SF2109P	Port Status Setting Link Status: Connected				<u> </u>
Port Status:	:					
Port No.	Speed/Duplex	Priority	Broadcast Storm Filtering	Flow Control	TRUNK	Modul
Port 1	100M/Full	Low	Disable	Enable	No Trunk	No
Port 2	100M/Full	Low	Disable	Enable	No Trunk	No
Port 3	100M/Full	Low	Disable	Enable	No Trunk	No
Port 4	100M/Full	Low	Disable	Enable	No Trunk	No
Port 5	100M/Full	Low	Disable	Enable	No Trunk	No
Port 6	100M/Full	Low	Disable	Enable	No Trunk	No
Port 7	100M/Full	Low	Disable	Enable	No Trunk	No
Port 8	100M/Full	Low	Disable	Enable	No Trunk	No
Port 9	100M/Full	Low	Disable	Enable	No Trunk	No
VLAN Settin	ngs: Port Vlan					
VLAN 1	1,2,3,4,5,6,	7,8,9				
VLAN 2						
VLAN 3						
VLAN 4						
VLAN 5						
VLAN 6						
VLAN 7						
VLAN 8						▼ ▶
Set port status.					N	

2. Every port has its own parameters to be configed. You can only select the lighten choice, not the grey choice.

t Status S	Settings			
Ports Port1-	-8 Port9–16	P4 P5 P6	6 P7 P8	Set All Ports OK Cancel
Port	Speed/Duplex	Priority Status	Broadcast Storm Filtering	Flow Control
Port 1	100Base/Full	Low	Disable	Enable
Port 2	100Base/Full	Low	Disable	Enable
Port 3	100Base/Full	Low	Disable	Enable
Port 4	100Base/Full	Low	Disable	Enable
Port 5	100Base/Full	Low	Disable	Enable
Port 6	100Base/Full	Low	Disable	Enable
Port 7	100Base/Full	Low	Disable	Enable
Dort 8	100Bace/Full	Low	Disable	Enable 🚽
FUILU	TOODasch an	LOW	Diodbio	



Here is a brief description about the parameters:

- Speed/Duplex: ecided the port's speed (10Mbps or 100Mbps) and the duplex (the half duplex or a full duplex) mode. In half duplex mode, only translating or receiving data at the same time. In full duplex mode, translating and receiving data can be working at the same time.
- Default Setting: 100 Base-Tx Full duplex (for TL-SF2109P), Auto negotiation (for TL-SF2117P and TL-SL2226P)
- Broadcast Storm Filtering: Click it to start the broadcast storm filtering, when the function is enabled, the port will drop the broadcast frames after received 64 continuous broadcast frames.
- > **Default Setting**: Disable
- Flow Control: This enable to turn flow control on or off when it is on, at full duplex mode, the switch uses Port-based IEEE802.3x flow control, at half duplex mode, the

switch use collision-based back pressure flow control. You can turn off the function, thus there is no flow control.

- > Default Setting: Enable
- Priority: Priority is a high feature of the switch, the switch with the function can support that the important application can transfer firstly. Port-based priority means every port can set its own priority.
- > **Default Setting**: Port-based priority.

4.4 TRUNK

TRUNK can transmit net data through a group of ports. The switch looks a TRUNK as a big port regardless of it's composition.

TL-SF2109 support two TRUNK, port1, port2 and port 7, port 8, but only one trunk at the same time.

TL-SF2117P does not support TRUNK.

TL-SL2226P supports 8 TRUNK, 1,2; 3,4;5,6,7,8; 9,10,11,12; 13,14,15,16; 17,18,19,20; 21, 22, 23, 24; 25,26 (Slot 1, Slot 2).

Default Setting: None.

1. Click "TRUNK" or the "TRUNK Setting" icon.

Smart Switc	h Configuration 3.6	- [SF2109P7]					
Ca Lie Mew	Seconds Accivace Co	ninguration <u>m</u> eip					
		·%				<u> </u>	
Switch Mod	el: TL-SF2109P	Link St(TRUNK Setting) cted					
Dort Status							
Port Status.	Speed/Dupley	Driority.	Broadcast Storm Filtering	Elow Control	TDUNK	Moduli	
Port 1	ареец/Бирісх 100М/Енії		Dicable	Fnable	No Trunk	No	
Port 2	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 3	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 4	100M/Full		Disable	Enable	No Trunk	No	
Port 5	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 6	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 7	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 8	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 9	100M/Full	Low	Disable	Enable	No Trunk	No	
			ł				
VLAN Settin	gs: Port Vlan						
VLAN 1	1,2,3,4,5,6,	7,8,9					
VLAN 2							
VLAN 3							
VLAN 4							
VLAN 5							
VLAN 6							
VLAN 7						_	
I VLAN 8 ▲	I	I				•	
Set TRUNK.					Ν		

2. And then select the certain trunk with " $\sqrt{}$ ".

Smart Switch	Configuratio Settings Activ	on 3.6 - [SF2109P7] ate Configuration Help					_ D ×
	2		🖄 🔜 🚹 🔄		9		
Switch Mode	el: TL-SF21	09P Link Status runk Settings	: Connected		×		<u>^</u>
Port Status:		Truck1	Trunk?	Truck?	Truska		
Port No.	Speed/E	Port 1–2	Port 7–8	E Port 9 to 12	Port 13 to 16	TRUNK	Modul
Port 1	100M/Ft					No Trunk	No
Port 2	100M/Ft	MM		272 P.C	275 P.S	No Trunk	No
Port 3	100M/Ft					No Trunk	No
Port 4	100M/Ft					No Trunk	No
Port 5	100M/Ft					No Irunk	No
Port 6	100M/Ft	-Trunk5	-Trunk6	Trunk7	Trunk8	No Irunk	N0
Port /	100M/Ft	🗖 Port 17 to 20	Port 21 to 24	E Port 25 to 28	Port 29 to 32	No Trunk	NO
Purt 0	100M/FL	ल्ला लग	ल्ह्या लहा		1755 1755	No Trunk	No
	τυυμγει						
VLAN Setting	is: Por	75 75	5-2 5-2	22 22	5-2 5-2		
VLAN 1	1.2.						
VLAN 2				· · · · · · · · · · · · · · · · · · ·			
VLAN 3				OK	Cancel		
VLAN 4							
VLAN 5							
VLAN 6							
VLAN 7							
VLAN 8							
Caution: This progra	am expects to	link to a switch through RS-:	232 interface.			N	

Smart Switch Configuration 3.6 - [SF2109P7]	lp	_ D × _ 8 ×
) 🖾 🔝 🖭 🖭 📰 🕄	
Switch Model: TL-SF2109P Link St	atus: Connected	<u> </u>
Port Status:		
Port No. Speed/C Trunk1	Trunk2 Trunk3 Trunk4	TRUNK Modul
Port 1 100M/Fi		No Trunk No
Port 2 100M/Ft 75 75		No Trunk No
Port 3 100M/Ft		No Trunk No
Port 4 100M/Ft 55C		No Trunk No
Port 5 100M/Ft		No Trunk No
Port 6 100M/Ft	Port 12 will be set to 100M rull duplex mode and high priority level.	No Trunk No
Port 7 100M/Ft	29 to 32	No Trunk No
Port 8 100M/Fi		No Trunk No
VLAN Settings: Port		No Irunk No
VLAN 1 1,2,		
	OK Cancel	
VIAN 8		-
		Þ
Caution: This program expects to link to a switch through	R5-232 interface.	NUM ///

Cautions:When setting TRUNK, the system will set the ports in a TRUNK to 100M full duplex.

4.5 VLAN

VLAN is composed of a group of workstations' multicast domain, which can build up the logic group without change the current topology.

TL-SF2109 supports two methods of VLAN: Port-based VLAN and Tag-based VLAN.

TL-SF2117P and TL-SL2226P support only port-based VLAN.

Default Setting: All ports in VLAN 1.

Port-based VLAN Setting:

1. Click the "VLAN" in menu, or the "VLAN setting" icon;

×
ОК
Cancel

2. Select VLAN mode to Port VLAN;

VLAN Type Selection	X
Select VLAN Type	
Port-Based VLAN	ОК
O Tag-Based VLAN	Cancel

3. And then move the cursor into the VLAN group you want to change, Click the ports, such as P2, P3, P4 and P5.

PORT VLAN Settings		×
VLAN		
VLAN1 1,2,3,4,5,6,7,8,9	VLAN9	
VLAN2	VLAN10	
VLAN3	VLAN11	
VLAN4	VLAN12	
VLAN5	VLAN13	
VLAN6	VLAN14	
VLAN7	VLAN15	
VLAN8	VLAN16	
•		<u> </u>
Ports		
P1 P2 P3 P4 P5 F	P6 P7 P8	ОК
Port 1–8 Port 9–16		Cancel

AG VLAN Settings		×
VLAN		
VLAN1 1,2,3,4,5,6,7,8,9	VLAN9	
VLAN2	VLAN10	
VLAN3	VLAN11	
VLAN4	VLAN12	
VLAN5	VLAN13	
VLAN6	VLAN14	
VLAN7	VLAN15	
VLAN8	VLAN16	
		Þ
Ports		Parameter Settings
P1 P2 P3 P4	P5 P6 P7 P8	. aramotor occurrigo
		ОК
Port 1–8 Port 9–16		Cancel

Cautions:Ports in VLAN can exist in other VLANs, and VLAN can have one port, and the port will not communicate to the others.

4. The ports you clicked now are in the same VLAN, you also can delete some ports from the VLAN with click the ports again, such as P4.

Caution: When the workstation connect to another port, the administrator must reassign VLAN members, when TRUNK is on, all ports in a TRUNK should be in the same VLAN.

Tag-based VLAN setting:

The difference is setting parameters between Port-based VLAN and Tag-based VLAN, you can set the PVID and emigration rule. (VLAN 1 to VLAN 9's VID are 1-9).

Default Setting: PVID is 1, emigration rule are Untag.

1. Select "Tag VLAN" in VLAN dialog box, and enter the interface. VLAN member set on a same method to Port-based VLAN.

Tag-Based VLAN Paramete	ers		×
Port PVID		Port Output Rule	
PVID of PORT 1	1 🔹	PORT 1 UnTag 💌	
PVID of PORT 2	1 💌	PORT 2 UnTag 💌	
PVID of PORT 3	1 💌	PORT 3 UnTag 💌	
PVID of PORT 4	1 🔹	PORT 4 UnTag 💌	
PVID of PORT 5	1 💌	PORT 5 UnTag 💌	
PVID of PORT 6	1 💌	PORT 6 UnTag 💌	
PVID of PORT 7	1 💌	PORT 7 UnTag 💌	
PVID of PORT 8	1 🔹	PORT 8 UnTag 💌	
PVID of PORT 9	1 💌	PORT 9 UnTag 💌	
		OK Cancel	

2. Setting parameter, pick the PVID and emigration rule in combo box.

4.6 Priority

1. Click the priority button in setting menu, or the "Priority over ToS and VLAN Tag" icon.

smart Swit	Smart Switch Configuration 3.6 - [GF2100P7]							
🔛 Eile View	🐨 File View Settings Activate Configuration Help 🛛 📕 🖊							
Switch Mod	lel: TL-SF2109P	Link Status: Connected				Î		
Port Status	:	D.1.1.			TRUNK			
Port No.	Speed/Duplex	Priority	Broadcast Storm Filtering	Flow Control	TRUNK	Modul		
Port I	100M/Full	Low	Disable	Enable	No Trunk			
Port 2	100M/Full	Low	Disable	Enable	No Irunk	NO		
Port 3	100M/Full	Low	Disable	Enable	No Irunk	No		
Port 4	100M/Full	Low	Disable	Enable	No Irunk	No		
Port 5	100M/Full	Low	Disable	Enable	No Trunk	No		
Port 6	100M/Full	Low	Disable	Enable	No Trunk	No		
Port 7	100M/Full	Low	Disable	Enable	No Trunk	No		
Port 8	100M/Full	Low	Disable	Enable	No Trunk	No		
Port 9	100M/Full	Low	Disable	Enable	No Trunk	No		
VLAN Settin	ngs: Tag Vlan	7.0.0						
VLAN I	1,2,3,4,5,6,	.7,0,9						
VLAN 2								
VLAN 3								
VLAN 4								
VLAN 5								
VLAN 6								
VLAN 7						_		
VLAN 8	1							
Set ToS priority and VLAN tag priority.								

2. The Switch support only port-based priority, there are two level priority: Low and High, you can set it in Port Status. "1 : n" means low priority and high priority, "0 : 1"

means that high priority is first always.

ity Settings	
VLAN tag based Priority	ToS Based Priority
Priority of VLAN tag 0 Low 💌	Priority of ToS 0
Priority of VLAN tag 1	Priority of ToS 1
Priority of VLAN tag 2	Priority of ToS 2
Priority of VLAN tag 3 Low	Priority of ToS 3
Priority of VLAN tag 4 High 💌	Priority of ToS 4 High 💌
Priority of VLAN tag 5 High	Priority of ToS 5 High 🔽
Priority of VLAN tag 6 High 💌	Priority of ToS 6 High 🔽
Priority of VLAN tag 7 High 💌	Priority of ToS 7 High
Priority Weight (Low:High) 1:4	

4.7 MAC Address Age Time

The MAC Address will auto age out after 5 minutes if it is not updated in MAC address table, this time is aging time. TL-SF2109's aging time is 300s. TL-SF2117P's is 0s to 1,048,575s. TL-SL2226P's is 12s or 300s.

1. Click the "MAC Address Aging" in settings menu or the "MAC Address Aging Setting" icon.

Per Vervi Setting: Activate Configuration Help Image: Configuration Help Image: Configuration Help Image: Configuration Help Switch Model: TL-SF2109P Link Status: Connected Port No. Speed/Duplex Port 1 100M/Full Low Disable Enable No Trunk Port 3 100M/Full Low Disable Enable No Trunk Port 4 100M/Full Low Disable Enable No Trunk Port 6 100M/Full Low Disable Enable No Trunk Port 5 100M/Full Low Disable Enable No Trunk Port 6 100M/Full Low Disable Enable No Trunk Port 7 100M/Full Low Disable Enable No Trunk Port 8 100M/Full Low Disable Enable No Trunk VLAN 1 1,2,3,4,5,6,7,8,9 VLAN 6	🖆 Smart Switch Configuration 3.6 - [SF2109P7]							
Image:	Eile ⊻iew	Image: Settings Activate Configuration Help						
Switch Model: TL-SF2109P Link Status: Connected Port Status: Port No. Speed/Duplex Priority Broadcast Storm Filtering Flow Control TRUNK Module Port 1 100M/Full Low Disable Enable No Trunk No Port 2 100M/Full Low Disable Enable No Trunk No Port 3 100M/Full Low Disable Enable No Trunk No Port 5 100M/Full Low Disable Enable No Trunk No Port 6 100M/Full Low Disable Enable No Trunk No Port 6 100M/Full Low Disable Enable No Trunk No Port 7 100M/Full Low Disable Enable No Trunk No Port 8 100M/Full Low Disable Enable No Trunk No Port 9 100M/Full Low Disable Enable No Trunk No Port 9 100M/Full Low Disable Enable No Tr								
Port No. Speed/Duplex Priority Broadcast Storm Filtering Flow Control TRUNK Module Port 1 100M/Full Low Disable Enable No Trunk No Port 2 100M/Full Low Disable Enable No Trunk No Port 3 100M/Full Low Disable Enable No Trunk No Port 4 100M/Full Low Disable Enable No Trunk No Port 5 100M/Full Low Disable Enable No Trunk No Port 6 100M/Full Low Disable Enable No Trunk No Port 7 100M/Full Low Disable Enable No Trunk No Port 7 100M/Full Low Disable Enable No Trunk No Port 8 100M/Full Low Disable Enable No Trunk No Port 9 100M/Full Low Disable Enable No Trunk No VLAN 1 1,2,3,4,5,6,7,8,9 VLAN 5 VLAN 5	Switch Mod Port Status	lel: TL-SF2109P :	Link Status: Connected	MAC Address Aging Se	tting		_	
Port 1 100M/Full Low Disable Enable No Trunk No Port 2 100M/Full Low Disable Enable No Trunk No Port 3 100M/Full Low Disable Enable No Trunk No Port 4 100M/Full Low Disable Enable No Trunk No Port 5 100M/Full Low Disable Enable No Trunk No Port 6 100M/Full Low Disable Enable No Trunk No Port 6 100M/Full Low Disable Enable No Trunk No Port 6 100M/Full Low Disable Enable No Trunk No Port 7 100M/Full Low Disable Enable No Trunk No Port 8 100M/Full Low Disable Enable No Trunk No Port 9 100M/Full Low Disable Enable No Trunk No VLAN 1 1.2.3.4.5.6.7.8.9 VLAN 5 VLAN 5 VLAN 6 VL	Port No.	Speed/Duplex	Priority	Broadcast Storm Filtering	Flow Control	TRUNK	Modul	
Port 2 100M/Full Low Disable Enable No Trunk No Port 3 100M/Full Low Disable Enable No Trunk No Port 4 100M/Full Low Disable Enable No Trunk No Port 5 100M/Full Low Disable Enable No Trunk No Port 6 100M/Full Low Disable Enable No Trunk No Port 6 100M/Full Low Disable Enable No Trunk No Port 7 100M/Full Low Disable Enable No Trunk No Port 7 100M/Full Low Disable Enable No Trunk No Port 8 100M/Full Low Disable Enable No Trunk No Port 9 100M/Full Low Disable Enable No Trunk No VLAN Settings: Tag Vlan VLAN 5 VLAN 5 VLAN 6 VLAN 8 VLAN 8 <td< td=""><td>Port 1</td><td>100M/Full</td><td>Low</td><td>Disable</td><td>Enable</td><td>No Trunk</td><td>No</td></td<>	Port 1	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 3100M/FullLowDisableEnableNo TrunkNoPort 4100M/FullLowDisableEnableNo TrunkNoPort 5100M/FullLowDisableEnableNo TrunkNoPort 6100M/FullLowDisableEnableNo TrunkNoPort 7100M/FullLowDisableEnableNo TrunkNoPort 8100M/FullLowDisableEnableNo TrunkNoPort 9100M/FullLowDisableEnableNo TrunkNoPort 9100M/FullLowDisableEnableNo TrunkNoVLAN Settings:Tag VlanVLAN 11,2,3,4,5,6,7,8,9VLAN 2VLAN 3VLAN 4VLAN 5VLAN 6VLAN 7VLAN 8VLAN 8VLAN 8VLAN 8	Port 2	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 4 100M/Full Low Disable Enable No Trunk No Port 5 100M/Full Low Disable Enable No Trunk No Port 6 100M/Full Low Disable Enable No Trunk No Port 6 100M/Full Low Disable Enable No Trunk No Port 7 100M/Full Low Disable Enable No Trunk No Port 8 100M/Full Low Disable Enable No Trunk No Port 9 100M/Full Low Disable Enable No Trunk No VLAN Settings: Tag Vlan VLAN 1 1.2,3,4,5,6,7,8,9 VLAN 2 VLAN 3 VLAN 4 VLAN 5 VLAN 4 VLAN 5 VLAN 6 VLAN 8 VLAN 8 <t< td=""><td>Port 3</td><td>100M/Full</td><td>Low</td><td>Disable</td><td>Enable</td><td>No Trunk</td><td>No</td></t<>	Port 3	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 5 100M/Full Low Disable Enable No Trunk No Port 6 100M/Full Low Disable Enable No Trunk No Port 7 100M/Full Low Disable Enable No Trunk No Port 8 100M/Full Low Disable Enable No Trunk No Port 9 100M/Full Low Disable Enable No Trunk No Vort 9 100M/Full Low Disable Enable No Trunk No VLAN Settings: Tag Vlan VLAN 1 1.2,3,4,5,6,7,8,9 VLAN 2 VLAN 3 VLAN 3 VLAN 4 VLAN 4 VLAN 5 VLAN 5 VLAN 6 VLAN 7 VLAN 8	Port 4	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 6 100M/Full Low Disable Enable No Trunk No Port 7 100M/Full Low Disable Enable No Trunk No Port 8 100M/Full Low Disable Enable No Trunk No Port 9 100M/Full Low Disable Enable No Trunk No VLAN Settings: Tag Vlan VLAN 1 1,2,3,4,5,6,7,8,9 VLAN 2 VLAN 2 VLAN 3 VLAN 4 VLAN 6 VLAN 7 VLAN 8	Port 5	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 7 100M/Full Low Disable Enable No Trunk No Port 8 100M/Full Low Disable Enable No Trunk No Port 9 100M/Full Low Disable Enable No Trunk No VLAN Settings: Tag Vlan VLAN 1 1,2,3,4,5,6,7,8,9 VLAN 2 VLAN 2 VLAN 3 VLAN 4 VLAN 4 VLAN 5 VLAN 6 VLAN 7 VLAN 8 VLAN	Port 6	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 8 100M/Full Low Disable Enable No Trunk No Port 9 100M/Full Low Disable Enable No Trunk No VLAN Settings: Tag Vlan VLAN 1 1,2,3,4,5,6,7,8,9 VLAN 2 VLAN 3 VLAN 3 VLAN 4 VLAN 6 VLAN 7 VLAN 8 VLAN 8	Port 7	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 9 100M/Full Low Disable Enable No Trunk No VLAN Settings: Tag Vlan VLAN 1 1,2,3,4,5,6,7,8,9 VLAN 2 VLAN 3 VLAN 4 VLAN 4 VLAN 5 VLAN 6 VLAN 7 VLAN 8	Port 8	100M/Full	Low	Disable	Enable	No Trunk	No	
VLAN Settings: Tag Vlan VLAN 1 1,2,3,4,5,6,7,8,9 VLAN 2	Port 9	100M/Full	Low	Disable	Enable	No Trunk	No	
VLAN 1 1,2,3,4,5,6,7,6,9 VLAN 2	VLAN Settir	igs: Tag Vlan	790					
VLAN 2 VLAN 3 VLAN 4 VLAN 5 VLAN 6 VLAN 7 VLAN 8	VLAN 2	1,2,3,4,3,0,	.7,0,9				_	
VLAN 3 VLAN 4 VLAN 5 VLAN 6 VLAN 7 VLAN 8	VLAN 2							
VLAN 4 VLAN 5 VLAN 6 VLAN 7 VLAN 8	VLAN 4							
VLAN 5 VLAN 6 VLAN 7 VLAN 8	VLAN 5							
VLAN 7 VLAN 7 VLAN 8	VLAN 6	<u> </u>						
VLAN 8								
	VLAN 8						_	
	 							

2. You can select as follows.



4.8 Config effect

1. Write to Switch

After finishing setting above, click "write to Switch", the switch will restart and reserve the results having been configed.

🖞 Smart Switch Configuration 3.6 - [SF2109P7]							
🔛 Eile View	男 Elle View Settings Activate Configuration Help						
Switch Mod	Switch Model: TL-SF2109P Link Status: Connected						
Port Status	:						
Port No.	Speed/Duplex	Priority	Broadcast Storm Filtering	Flow Control	TRUNK	Modul	
Port 1	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 2	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 3	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 4	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 5	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 6	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 7	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 8	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 9	100M/Full	Low	Disable	Enable	No Trunk	No	
VLAN Settir	ngs: Tag Vlan						
VLAN 1	1,2,3,4,5,6,	.7,8,9					
VLAN 2							
VLAN 3							
VLAN 4							
VLAN 5							
VLAN 6							
VLAN 7						_	
VLAN 8						▼ ►	
Write current con	figuration to switch to a	activate it.			N		

2. Restore factory setting

Click the "Recover Factory Configuration" in menu, and it will restore the parameters to default value and restart the switch.

📹 Smart Swite	Smart Switch Configuration 3.6 - [SF2109P7]						
📴 Eile View	📴 Elle View Settings Activate Configuration Help 💶 🗗						
Switch Mod	Switch Model: TL-SF2109P Link Status: Connected						
Port Status:	:						
Port No.	Speed/Duplex	Priority	Broadcast Storm Filtering	Flow Control	TRUNK	Modul	
Port 1	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 2	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 3	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 4	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 5	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 6	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 7	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 8	100M/Full	Low	Disable	Enable	No Trunk	No	
Port 9	100M/Full	Low	Disable	Enable	No Trunk	No	
VLAN Settin	igs: Tag Vlan	789					
VLAN 2	1,2,3,4,3,0,	7,0,3				_	
VLAN 3							
VLAN 5							
VI AN 6							
VIAN 7							
VI AN 8						-	
	1					Þ	
Write current con	Initial current configuration to switch to activate it.						

4.9 "Save", "Open" Configuration file

1. "Save" configuration is that save the result of current configuration to a file.

🐇 Smart Switch Configuration 3.6 - [SF2109P7]						
🔛 Elle View Settings Activate Configuration Help						
Switch Model: TL-SF2109P Link Status: Connected						
Port Status	: Speed/Dupley	Priority	Broadcast Storm Filtering	Elow Control	TRUNK	Moduli
Port 1	100M/Full	Low	Disable	Enable	No Trunk	No
Port 2	100M/Full		Disable	Enable	No Trunk	No
Port 3	100M/Full	Low	Disable	Enable	No Trunk	No
Port 4	100M/Full	Low	Disable	Enable	No Trunk	No
Port 5	100M/Full	Low	Disable	Enable	No Trunk	No
Port 6	100M/Full	Low	Disable	Enable	No Trunk	No
Port 7	100M/Full	Low	Disable	Enable	No Trunk	No
Port 8	100M/Full	Low	Disable	Enable	No Trunk	No
Port 9	100M/Full	Low	Disable	Enable	No Trunk	No
VLAN Settings: Tag Vlan						
VLAN 1	1,2,3,4,5,6,	,7,8,9				
VLAN 2						
VLAN 3						
VLAN 4						
VLAN 5						
						-
		1				Þ
Save switch configuration to a file.						

2. "Open" configuration is that open the last saved file.

🖆 Smart Switch Configuration 3.6 - [SF2109P7]						
Eile ⊻iew	💬 Eile View Settings Activate Configuration Help					_ 8 ×
Switch Model: TL-SF2109P Link Status: Connected						
Port Status						
Port No.	Speed/Duplex	Priority	Broadcast Storm Filtering	Flow Control	TRUNK	Modul
Port 1	100M/Full	Low	Disable	Enable	No Trunk	No
Port 2	100M/Full	Low	Disable	Enable	No Trunk	No
Port 3	100M/Full	Low	Disable	Enable	No Trunk	No
Port 4	100M/Full	Low	Disable	Enable	No Trunk	No
Port 5	100M/Full	Low	Disable	Enable	No Trunk	No
Port 6	100M/Full	Low	Disable	Enable	No Trunk	No
Port 7	100M/Full	Low	Disable	Enable	No Trunk	No
Port 8	100M/Full	Low	Disable	Enable	No Trunk	No
Port 9	100M/Full	Low	Disable	Enable	No Trunk	No
VLAN Settings: Tag Vlan						
VLAN 1	1,2,3,4,5,6,	.7,8,9				
VLAN 2						
VLAN 3						
VLAN 4						
VLAN 5						
VLAN 6						
VLAN 7						_
U VLAN 8	VLAN 8				▼	
Open switch configuration file.						

Appendix A: TL-SF2109P Technical Specification

General				
Standards	IEEE802.3 10BASE-T			
	IEEE802.3u 100BASE-T	X/FX		
Topology	Star			
Protocol	CSMA/CD			
Ports	8 10/100M Auto-Negotiation RJ45 Ports (Auto MDI/MDIX)			
	1 Independent Expansion Slot			
	1 Console (RS232 DB9 Male)			
Data Transfer Rate	Ethernet: 10Mbps (Half Duplex), 20Mbps (Full Duplex);			
	Fast Ethernet: 100Mbps	Fast Ethernet: 100Mbps (Half Duplex), 200Mbps (Full Duplex)		
Network Media (Cable)	10BASE-T: UTP category 3, 4, 5 cable (maximum 100m)			
	EIA/TIA-568 100Ω STP (maximum 100m)			
	100BASE-TX: UTP category 5, 5e cable (maximum 100m)			
	EIA/TIA-568 100Ω STP (maximum 100m)			
	100BASE-FX: MMF (maximum 2000m) or SMF (maximum			
	20~60Km)			
LED indicators	Power, Link/Act, 100Mbps			
Transfer Method	Store-and-Forward			
Frame Filtering and Forward Rate	10Mbps: 14880pps, 100Mbps: 148800pps			
Power Supply Input	220V~, 50Hz			
	TL-SM201CM	100Base-FX Multi-Mode Fiber Module		
Ontional Module		(SC connector, up to 2km)		
	TL-SM201CS-20/40/60	100Base-FX Single-Mode Fiber Module		
		(SC connector, up to 20/40/60km)		
Environmental and Physical				
Dimensions(W×D×H)	11.6×6.2×1.7 in. (294×158×44mm)			
Operating	0°℃~40°℃ (32°F~104°F)			
Temperature				
Storage Temperature	-40~70℃ (-40°F~158°F)			
Operating Humidity	10%~90% non-condensing			
Storage humidity	5%~95% non-condensing			

Appendix B: TL-SF2117P Technical Specification

General				
Standards	IEEE802.3 10BASE-T			
	IEEE802.3u 100BASE-TX/FX			
Topology	Star			
Protocol	CSMA/CD			
Ports	16 10/100M Auto-Negotiation RJ45 Ports (Auto MDI/MDIX)			
	1 Independent Expansion Slot			
	1 Console (RS232 DB9 Male)			
Data Transfer Rate	Ethernet: 10Mbps (Half Duplex), 20Mbps (Full Duplex);			
	Fast Ethernet: 100Mbps (Half Duplex), 200Mbps (Full Duplex)			
Network Media (Cable)	10BASE-T: UTP category 3, 4, 5 cable (maximum 100m)			
	EIA/TIA-568 100Ω STP (maximum 100m)			
	100BASE-TX: UTP category 5, 5e cable (maximum 100m)			
	EIA/TIA-568 100Ω STP (maximum 100m)			
	100BASE-FX: MMF (maximum 2000m) or SMF (maximum			
	20~60Km)			
LED indicators	Power, Link/Act, 100Mbps			
Transfer Method	Store-and-Forward			
Frame Filtering and Forward Rate	10Mbps: 14880pps, 100Mbps: 148800pps			
Power Supply Input	100-240V~, 50/60Hz			
	TL-SM201CM	100Base-FX Multi-Mode Fiber Module		
Optional Madula		(SC connector, up to 2km)		
		100Base-FX Single-Mode Fiber Module		
	TE-SIW20103-20/40/00	(SC connector, up to 20/40/60km)		
Environmental and Physical				
Dimensions(W×D×H)	17×7.1×1.7 in. (440×180×44mm)			
Operating	0℃~40℃ (32°F~104°F)			
Temperature				
Storage Temperature	-40~70°C (-40°F~158°F)			
Operating Humidity	10%~90% non-condensing			
Storage humidity	5%~95% non-condensing			

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Appendix C: TL-SL2226P Technical Specification

General				
Standards	IEEE802.3 10BASE-T			
	IEEE802.3u 100BASE-TX/FX			
	IEEE802.3ab 1000BASE-T			
	IEEE802.3Z 1000BASE-SX/LX			
Topology	Star			
Protocol	CSMA/CD			
Ports	8 10/100M Auto-Negotiation RJ45 Ports (Auto MDI/MDIX)			
	1 Independent Expansion Slot			
	1 Console (RS232 DB9 Male)			
Data Transfer Rate	Ethernet: 10Mbps (Half Duplex), 20Mbps (Full Duplex);			
	Fast Ethernet: 100Mbps (Half Duplex), 200Mbps (Full Duplex)			
	Gigabit Ethernet: 1000Mbps (Half Duplex), 2000Mbps (Full			
	Duplex)			
Network Media (Cable)	10BASE-T: UTP category 3, 4, 5 cable (maximum 100m)			
	EIA/TIA-568 100Ω STP (maximum 100m)			
	100BASE-TX/1000Base-T: UTP category 5, 5e cable			
	(maximum 100m)			
	EIA/TIA-568 100Ω STP			
	(maximum 100m)			
	100BASE-FX/1000BASE-SX/LX: MMF or SMF			
LED indicators	Power, Link/Act, 100Mbps			
Transfer Method	Store-and-Forward			
Frame Filtering and Forward Rate	10Mbps: 14880pps, 100Mbps: 148800pps			
Power Supply Input	100-240V~, 50/60Hz			
Ontional Madula		100Base-TX UTP module, RJ45 Port,		
	TL-SM2010	100m max		
	TL-SM201CM	100Base-TX MMF module, IEEE		
		suggested SC connector, 2Km max		
	TL-SM201CS	100Base-TX SMF module, IEEE		
		suggested SC connector, 60Km max		
	TL-SM301U	1000Base-T UTP module, RJ45 Port,		
		100m max		
		1000Base-SX MMF module, IEEE		
		suggested SC connector,		
		(50/125 μ m: 550m max; 62.5/125 μ		
		m: 275m max)		
	TL-SM301CS	1000Base-LX SMF module, IEEE		
		suggested SC connector, 10Km max		

	TL-SM301GB	1000Base-LX or 1000Base-SX GBIC module		
Environmental and Physical				
Dimensions(W×D×H)	17×7.1×1.7in. (440×18	1×1.7in. (440×180×44mm)		
Operating	0°C~40°C (32°F~104°F)			
Temperature				
Storage Temperature	-40~70℃ (-40°F~158°F)			
Operating Humidity	10%~90% non-condensing			
Storage humidity	5%~95% non-condensing			

Appendix D: Contact Information

For help with the installation or operation of the TP-LINK TL-SF2109P/2117P or TL-SL2226P Smart Switch, please contact us.

E-mail: <u>support@tp-link.com</u> Website: <u>http://www.tp-link.com</u>